(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/009887 A1

(51) International Patent Classification?: B66D 1/74, 1/22

(21) International Application Number:

PCT/DK2004/000493

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Fillng Language:

Danish

(26) Publication Language:

English

(30) Priority Data:

PA 2003 01111 29 July 2003 (29.07.2003) DK PA 2003 01300 10 September 2003 (10.09.2003) DK

(71) Applicant (for all designated States except US): FRED-ERIK ANDERSENS MASKINFABRIK A/S [DK/DK]; Jacgervaenget 36, DK-7100 Vejle (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ANDERSEN, Frode [DK/DK]; Olaf Ryes Vej 4, DK-7100 Vejle (DK).

(74) Agent: PATRADE A/S; Fredens Torv 3A, DK-8000 Aarhus C (DK).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

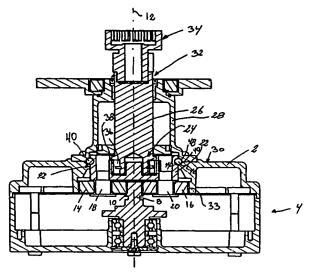
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GEAR FOR ELECTRICALLY/HYDRAULICALLY AND MANUALLY DRIVEN SHEET WINCHES



(57) Abstract: By modern gears for electric/hydraulic and manually driven sheet winches, demands are made on the presence of a free-wheeling mechanism (24) in case that the drive unit fails, and it is also desirable that the gear takes up as little space as possible, irrespectively whether it is placed on deck or below on a boat. Thus there is indicated a gear of the kind indicated which is peculiar in that the planet carrier (22) is suspended on roller/ball bearings disposed farther away from the centre axis (12) of the planet carrier than the free-wheeling mechanism (24). This design enables reducing installation dimensions for the gear, as the normally used central shaft may be omitted and the space can be utilised for placing the free-wheeling mechanism (24).